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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/725,938	12/03/2003	Holger Hoppe	543822002400	4491
25227 7590 05/15/2007 MORRISON & FOERSTER LLP		EXAM	INER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.



A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).		Application No.	Applicant(s)				
VININ P. NGUYEN 2828		10/725,938	HOPPE, HOLGER				
The MAILING DATE of this communication appears on the cover sheef with the correspondence address → Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Eaterbook of them may be exhibited used the provision of 37 CR1 13(5), in ne event, however, may a reply be briefy filled in the communication of 37 CR1 13(5), in ne event, however, may a reply be briefy filled in 14 NO period for reply is aspectified above, the maximum statutory period will apply and will expire SIX (8) MONTHS from the malling date of this communication. Pallute for require will write the filled like that these maximum statutory and the spring statutor. **Pallute for reply will min set after carbaded period for reply will by statuko, cause the application CD 510 LS C, § 133, Any reply received by the Office like that there makes after the malling date of this communication, seven if limited the communication. Pallute for reply will be statuko, cause the application CD 510 LS C, § 133. **Status** **Pallute for reply is served to the communication of the communication is filled.** 200 MIN and the communication is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. **Disposition of Claims** 4) Claim(s) 1-29 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6) Claim(s) 1-29 is/are allowed. 6) Claim(s) 1-29 is/are allowed. 6) Claim(s) 1-29 is/are rejected. 7) Claim(s) 1-29 is/are rejected. 7) Claim(s) 1-29 is/are rejected. 7) Claim(s) 1-29 is/are allowed. 8) Claim(s) 1-29 is/are rejected. 7) Claim(s) 1-29 is/are allowed. 8) Claim(s) 1-29 is/are allowed. 8) Claim(s) 1-29 is/are allowed. 8) Claim(s) 1-29 is/are allowed. 9) The specification is objected to by the Examiner. Applicat	Office Action Summary	Examiner	Art Unit				
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1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 04/26/07 has been entered.

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- 2. The proposed drawing correction filed on 10/18/2006 is acceptable.
- 3. Applicants' remarks filed on 03/28/07 argue that the socket (16a) of Matsuda is not a test socket and the semiconductor chip of Matsuda does not comprise contacting test contacts exclusive for testing the contacting between the semiconductor chip and the test carrier immediately after the loading of the test carrier with the semiconductor chip".

It appears that Applicants give too much weight for the term "test carrier". Test carrier is a broad term and each the socket (16a,16b,16c,16d) of Matsuda would be qualified a test carrier because receives each of the semiconductor chip (10a,10b,10c,10d) and electrically connected to the semiconductor chips through its electrical contacts (162a,162,b,162c,162d). As soon as each of the chip is inserted into each of the sockets, test is performed immediately. Furthermore, from figure 2 of Matsuda, the pin of the chip (10a) connected to the test contact terminal (162a) and electrically connected to the test apparatus (30,34,32,36) would be qualified as a contacting test contact of the semiconductor chip (10a). Furthermore, in the new drawing of figure 4 filed on 10/18/06, Applicants disclose contacts 101,100a,100b as regular contacts of the chip, however, no specific contacts are designated as contacting test contacts exclusive for test the contacting between the semiconductor chi and the test carrier immediately after the loading of

the test carrier with the semiconductor chip.

4. Claims 12-14,19-22 are objected to because of the following informalities:

In claim 8, it is unclear whether "a corresponding pad of the semiconductor chip" is the same as "contacting test contact" of the semiconductor chip in claim 1.

In claim 9, it is unclear whether "a plurality of pads of the semiconductor chip" are the same as "contacting test contacts" of the semiconductor chip in claim 1.

In claim 12, it is still unclear what "the testing chip" comprises of. Is it shown in any of drawings? Is this testing chip the same as "the testing apparatus"?

- . Appropriate correction is required.
- 5. In claim 16,18,20-22, it appears that the limitation of "used for testing the functioning of the semiconductor chip" and "used during ordinary operation of the semiconductor chip" would not further limit the scope of the invention but it is considered as intended use and this limitation is not given any patentable weights.
- 6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1-24,26,28-29 are rejected under 35 U.S.C. 102(b) as being anticipated by Matsuda (Pat # 4,730,156).

As to claims 1,12-13,26,28-29, Matsuda discloses in figure # 2 an apparatus for testing contacting between a semiconductor chip and a carrier having a carrier (16a,16b,16c,16d) for coupling to a semiconductor chip (10a,10b,10c,10d) and a plurality of contacting test contacts (162a,162b,162c,162d) for exclusively testing the contacting between the semiconductor chip and the carrier (16a,16b,16c,16d). It is noted that the carrier (16a,16b,16c,16d) is considered as a "test carrier" since it is connected to a detection circuit (30,32,34,36) and the semiconductor chip is directly contacted with the contacts (14) of the test carrier (16a,16,16c,16d).

As to claims 2 and 14, it appears that the carrier (16a,16b,16c,16d) electrically coupled to a testing apparatus (30,34,32,36) by wires/conductors connected to the test contacts (162a,162b,162c,162d).

As to claim 3, it appears that the carrier is connected to the testing apparatus and the carrier (16a,16b,16c,16d) is subsequently loaded with semiconductor chip (10a,10b,10c,10d).

As to claim 4, it appears that the carrier (16a,16b,16c,16d) is inherently loaded at a carrier loading station and the contacting between the carrier and the semiconductor chip is tested before the carrier is transported to a further station after all tests are done.

As to claim 5, the contacting between the carrier and the chip is tested by the testing apparatus (30,32,34,36).

As to claim 6, the device of Matsuda is configured to test the contacting between the carrier and the semiconductor chip but not functioning of the chip.

As to claim 7, performing the contacting between the carrier and the semiconductor chip being tested by the testing apparatus (34,30,32,36) less than 2 seconds after loading of the carrier with the chip is considered as an inherent function of the testing apparatus (30,32,34 and 36).

As to claims 8-9, the contacting testing between the carrier and the chip is determined whether an electric contact has been established between a corresponding pad (104a,106a,104b,106b,104c,106c,104d,106d) of the semiconductor chips (10a,10b,10c,10d) and the assigned pads (162a,164a,162b,164b,162c,164c,162d,164d) of the carrier (16a,16b,16c,16d).

As to claim 10, it appears that there is a current flowing through the corresponding chip pad to the testing apparatus (30,34,32,36) in order to trigger the indicator (36) for indicating the electric contact between the chip and the carrier.

As to claim 11, when the contact between the semiconductor chip and the carrier is properly connected, the indicator (36) is lit up, that means there is an amount of voltage dropping across the chip pad and that voltage is determined by the indicator (36).

As to claims 15 and 19, it appears that some of the contacting test contacts (see figure 2, test contacts on the upper left corner of the chip (10a,10b,10c,10d) are not used during ordinary operation of the chip.

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As to claims 16,18,20-22, Matsuda also disclose additional contact (104 or 106).

As to claims 17 and 21, the contacts (104a, 106a,104b,106b,104c,106c,104d,106d) are not used for testing the functioning of the chip during contacting test between the semiconductor chip and the carrier.

As to claims 23-24, Matsuda discloses one or more contacting test contacts (104a,106a,104b,106b,104c,106c,104d,106d) are provided on a bottom of the chip (10a,10b,10c,10d).

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claims 25 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuda (Pat # 4,730,156) in view of Farnworth (Pat # 6,369,595).

As to claims 25 and 27, Matsuda et al disclose an apparatus for testing contacting between a semiconductor chip and a carrier. However, the carrier (16a,16b,16c,16d) of Matsuda et al is not a TSOP test carrier.

Farnworth et al teach that it would have been well known to have the TSOP socket (31) (see column 8, lines 6-8).

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It would have been obvious for one of ordinary skill in the art to consider that the carrier (16a,16b,16c,16d) of Matsuda et al is a TSOP test carrier as taught by Farnworth et al since this type of the socket is well known in the art for supporting a certain IC package.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to VINH P. NGUYEN whose telephone number is 571-272-1964.

The examiner can normally be reached on 6:30AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, HA T. NGUYEN can be reached on 571-272-1678. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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05/11/07